



cpm: trigonometry

Ms. Kondo

kkondo@davincischools.org

mskondolovesmath@gmail.com

The class is structured around problems and investigations that build conceptual understanding of algebra topics, comfort with using general equations to represent functions and relations, as well as with interpreting general equations to describe a situation, and an awareness of connections between different ideas. You are encouraged to investigate, conjecture, and then justify in order to further develop your reasoning skills.

The course also uses a multiple-representations approach to investigating new topics. You will use graphs, contexts or situations, tables and symbolic representations of information to investigate functions and relations. This approach to learning will provide you with a more conceptual understanding of the material and a greater appreciation for higher-level mathematics.

essential skills & knowledge
(80% of final grade)

**habits
of mind**
(10% of final
grade)

**21st cent.
skills**
(10% of final
grade)

Projects (200 points each)

Homework (5 points each): The assignments must be correct, show all work, and demonstrate pride in work. Homework should not take more than 30 minutes per night. **For full credit, homework packets must be turned in on the day of Test A.** Late packets will not be accepted after Test B.

Classwork: Participating in classwork is an essential component of this class, and includes: actively engaging in groupwork & classroom discussion, sharing your solutions with the class, sharing group responsibilities, and being present and on time every day.

Quizzes (30 points total): Every Friday, quizzes will be problems from the homework assigned that week. These can be made up on Thursday mornings.

Warm-ups: These are a great way to check your understanding; be ready to share your solutions at any time.

Tests (200 points each): Throughout our class, we will continually fix mistakes, perfect your skills, and improve your understanding. However, because I believe in the power of learning from mistakes, a second test (Test B) will also be offered at lunch or after school on a specified day. **Because of the Test B, no make-ups for Test A will be offered.**

essential skills:	essential knowledge:
<ol style="list-style-type: none"> 1. Investigate problems 2. Justify processes 3. Reverse thinking 4. Choose a strategy 5. Generalize 	<ol style="list-style-type: none"> 1. Analyze the family of linear functions and a non-linear function 2. Use tables, graphs, and equations to represent arithmetic and geometric sequences. 3. Apply the properties of exponents to solve exponential growth and decay problems. 4. Students will transform parent graphs to model real-world situations 5. Solve systems of equations both algebraically and graphically 6. Understand the relationship between functions and their inverses 7. Solve a system of three variables algebraically and identify the solution algebraically 8. Use logarithms to solve exponential equations 9. Evaluate and solve trigonometric functions 10. Solve and analyze the algebraic and graphic connections of a polynomial function 11. Use combinations and permutations to calculate the probability of a given event 12. Derive equations, graph, and identify important characteristics of conic sections 13. Calculate the sum of both finite and infinite series. 14. Understand the relationship between Pascal's Triangle and the Binomial Theorem and apply the Binomial Theorem to solve probability problems. 15. Evaluate trigonometric equations to determine the number of solutions it has and solve for them. 16. Apply the trigonometric identities to rewrite trigonometric equations and solve more complicated trigonometric equations.

When\Where can you get extra help?

1. **Homework hints** – available as a link next to each problem in your e-book.
2. **Ms. Kondo** – Room 202 (Period 10, 8:00am-8:55am) or by appointment. You are welcome any day at lunch or after school to work on homework in my room.
3. **Online resources:**
 - a. www.librarytutor.org - The LA Public library provides free tutors, who you can chat with live.
 - b. www.drmath.com - Dr. Math has math professors who answer questions through a forum; You can search the forum for help or submit your own question and a mathematics professor will answer it!



ABSENCE BUDDIES:

Name	Phone #	Email/AIM

Agreement

I have read through the syllabus and understand Ms. Kondo's expectations and requirements. I agree to follow the rules, take advantage of all learning opportunities, and do my best in this class.

Student Signature_____

Dear Parent/Guardian,

I am really looking forward to working with your student and you this year! Our students and their futures are so important to everyone and I hope to help them achieve as much as they can. If they do all of their work, and follow the expectations outlined by the syllabus, they will have the best chance to succeed in my class.

This year, we are using the College Preparatory Math curriculum. There are many resources for students available online, including extra practice and homework help. There are also great resources for you, the parent/guardian, to help your student succeed: <http://www.cpm.org/teachers/pguides.htm>.

Please note that photographs may be taken in class to document student learning and activities. Also, please help me by answering the questions below

If you would like to contact me, I am available during school hours at (310) 725-5800 and via email, at kkondo@davincischools.org. I look forward to speaking with you!

Sincerely,

Ms. Kondo

1. Does your student have any medical/physical problems which may affect his/her classroom performance? Please name any specific concern(s) you may have which may affect your student's learning:

2. Is there anything else you'd like to let me know about your student? Are there any questions you have for me?

Look at the resources
at www.cpm.org!



Print Student Name: _____

Print Parent/Guardian Name: _____

Parent/Guardian Signature: _____

Date: _____ Email (if available): _____

Home phone number: _____ Alternate phone number: _____

The best time to contact you is _____ at home/on alternate phone number (circle one).

Who speaks English at home? _____

Estimados Padres/Guardianes,

Estoy emocionada y espero tener la oportunidad de trabajar con usted y su estudiante durante este semestre! Nuestros estudiantes y sus futuros son importantes para todos y espero ayudarles a alcanzar sus metas. Si ellos siguen las expectativas y guías delineadas en el programa de estudios, ellos tendrán una mejor oportunidad de ser exitosos en mi clase.

Por favor tome nota que fotografías pueden ser tomadas para documentar el aprendizaje y actividades de los estudiantes. También, por favor ayúdeme al contestar las preguntas siguientes.

Si usted quisiera contactarme, estoy disponible durante el horario escolar en el (310) 725-5800 y vía email al kkondo@davincischools.org. Espero platicar con usted pronto!

Atentamente:

Ms. Kondo

1. Su estudiante tiene problemas físicos/médicos que pudieran afectar su participación en la clase? Por favor indique algunos problemas que usted cree que puedan afectar el aprendizaje de su estudiante:

2. Hay algo adicional que usted quisiera dejarme saber sobre su estudiante? Tiene usted algunas preguntas para mi?

Look at the resources
at www.cpm.org!



Nombre Del Estudiante (letra de molde): _____

Nombre Del Padre/Guardián (letra de molde): _____

Firma del Padre/Guardián: _____

Fecha: _____ Email (Si lo tiene): _____

Numero de Teléfono: _____ Numero Alterno: _____

Horario en Cual Puedo Contactarlo _____ en el teléfono del hogar o alternativo (circule uno)

Quien Habla Ingles en el Hogar: _____